UNITED STATES PATENT AND TRADEMARK OFFICE

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10/809,963	03/26/2004	Ahmed Doleh	34986.3	7917

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EXAMINER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

PTOL-90A (Rev. 04/07)

	Application No.	Applicant(s)
Office Action Summary	10/809,963	DOLEH, AHMED
	Examiner	Art Unit	
	Isaac T. Tecklu	2192.	

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>29 October 2007</u>.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-53* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-53* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☐ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.

5)☐ Notice of Informal Patent Application

6)☐ Other: _____.

DETAILED ACTION

1.　　　This action is responsive to the amendment filed on 10/29/2007.

2.　　　Claims 1-53 have been reexamined.

Claim Rejections - 35 USC § 102

3.　　　The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4.　　　Claims 1-53 are rejected under 35 U.S.C. 102(e) as being anticipated by Raj (US

6,772,320 B1).

Per claim 1, Raj discloses a method of exchanging data between first and second

components having first and second native data structure formats (e.g. FIG. 3, steps 305, 335

and related text), respectively, comprising:

exchanging native data structure format information between the first and second

components (col. 1: 50-60 "… big endian machine and a little endian machine communicate

…" and e.g. FIG. 1 and related text);

generating data in the first native data structure format (col. 1: 64-68 " … create a data

structure to enable the conversion …");

transmitting the generated data between the first and second components (col. 2: 65-68 "... interfaces that move data between tow regions or nodes ..." and col. 3:1-10 "... by send or receive operation ..." and e.g. FIG. 1 and related text);

translating the generated data into the second native data structure format based on the exchanged native data structure format information (col. 7: 1-10 "... convert from little endian data format to big endian data format ...").

Per claim 2, Raj discloses the method of claim 1 wherein the exchanged data structure format information includes first data structure format information corresponding to the first native structure format and second data structure (col. 1: 50-60 "... big endian machine and a little endian machine communicate ..." and e.g. FIG. 1 and related text) format information corresponding to the second native structure format (col. 1: 10-20 "... systems having different data storage architectures so these computer systems may simply and easily communicate over a network...").

Per claim 3, Raj discloses the method of claim 2 wherein exchanging includes the sending the first data structure format information from the first component to the second component and sending the second data structure information from the second component to the first component (col. 2: 65-68 "... interfaces that move data between tow regions or nodes ..." and col. 3:1-10 "... by send or receive operation ..." and e.g. FIG. 1 and related text).

Per claim 4, Raj discloses the method of claim 3 wherein the exchanging occurs before the generating (e.g. FIG. 3 and related text and col. 2: 65-68 "... interfaces that move data between tow regions or nodes ..." and col. 3:1-10 "... by send or receive operation ..." and e.g. FIG. 1 and related text).

Per claim 5, Raj discloses the method of claim 3 further comprising establishing a communication link between the first and second components, wherein the exchanging of native data structure format information occurs substantially immediately after the communication link is established (e.g. FIG. 1 and related text)

Per claim 6, Raj discloses the method of claim 1 wherein the exchanged data structure format information includes a global ID for each of a plurality of variables included in the generated data (e.g. FIG. 2 "TransactID" and related text).

Per claim 7, Raj discloses the method of claim 6 wherein each global ID is based on a class and a construct by which the corresponding variable is defined (e.g. FIG. 2 and related text).

Per claim 8, Raj discloses the method of claim 6 wherein each global ID is based on a class, a construct, and a variable number by which the corresponding variable is defined (e.g. FIG. 2 and related text).

Per claim 9, Raj discloses the method of claim 6 wherein each global ID is based on a location of the corresponding variable within a construct (col. 3: 10-20 "... data is sent to memory location in anode ...").

Per claim 10, Raj discloses the method of claim 6 wherein each global ID is based on a location of the corresponding variable within a class (col. 4: 50-60 "... where the variables are set to byte positions ...").

Per claim 11, Raj discloses the method of claim 1 wherein the exchanging, generating, transmitting, and translating are implemented via object-oriented programming (e.g. FIG. 4, element 400 and related text).

Per claim 12, Raj discloses the method of claim 1 wherein the exchanging occurs before the transmitting (e.g. FIG. 3 and related text and col. 2: 65-68 "... interfaces that move data between tow regions or nodes ..." and col. 3:1-10 "... by send or receive operation ..." and e.g. FIG. 1 and related text).

Per claim 13, Raj discloses the method of claim 1 wherein the exchanging occurs after the transmitting (e.g. FIG. 3 and related text and col. 2: 65-68 "... interfaces that move data between tow regions or nodes ..." and col. 3:1-10 "... by send or receive operation ..." and e.g. FIG. 1 and related text).

Per claim 14, Raj discloses the method of claim 1 wherein the exchanging and the transmitting occur substantially simultaneously (e.g. FIG. 3 and related text and col. 2: 65-68 "... interfaces that move data between tow regions or nodes ..." and col. 3:1-10 "... by send or receive operation ..." and e.g. FIG. 1 and related text).

Per claim 15, Raj discloses the method of claim 1 wherein the translating occurs after the transmitting (e.g. FIG. 3 and related text and col. 2: 65-68 "... interfaces that move data between tow regions or nodes ..." and col. 3:1-10 "... by send or receive operation ..." and e.g. FIG. 1 and related text).

Per claim 16, Raj discloses the method of claim 1 wherein the translating occurs before the transmitting (e.g. FIG. 3 and related text and col. 2: 65-68 "... interfaces that move data between tow regions or nodes ..." and col. 3:1-10 "... by send or receive operation ..." and e.g. FIG. 1 and related text).

Per claim 17, Raj discloses the method of claim 1 wherein the first and second components are within a single computer (e.g. FIG. 1, element 10 and related text).

Per claim 18, Raj discloses the method of claim 1 wherein the first and second components are within a single switch (e.g. FIG. 1, Switch 50 and related text).

Per claim 19, Raj discloses the method of claim 1 wherein the first and second components are within a single server (e.g. FIG. 1, element 20 and related text).

Per claim 20, Raj discloses the method of claim 1 wherein the first and second components comprise a legacy component and an upgraded version of the legacy component (col. 3: 25-35 "... communication between SM and SMA).

Per claim 21, Raj discloses the method of claim 1 wherein the translating includes converting received generated data between first and second data types (col. 7: 1-10 "... convert from little endian data format to big endian data format ...").

Per claim 22, Raj discloses the method of claim 21 wherein the first and second data types are each one of big Indian and little Indian (col. 7: 1-10 "... convert from little endian data format to big endian data format ...").

Per claim 23, Raj discloses the method of claim 1 wherein: exchanging native data structure formation information includes transmitting first native data structure format information generated by the first component from the first component to the second component (col. 1: 50-60 "... big endian machine and a little endian machine communicate ..." and e.g. FIG. 1 and related text); and translating the generated data into the second native data structure format includes correlating IDs in the first native data structure format information with associated IDs in second native data structure format information generated by the second component (col. 7: 1-10 "... convert from little endian data format to big endian data format ...").

Per claim 24, Raj discloses the method of claim 1 wherein the translating includes truncating variable values based on the exchanged native data structure format information (col. 4: 50-60 "... three are stored in an eight-bit variables ..." and col. 7: 1-10 "... convert from little endian data format to big endian data format ..." and e.g. FIG. 3 and related text).

Per claim 25, Raj discloses the method of claim 1 further comprising initializing variables not found in the generated data (e.g. FIG. 3 and related text).

Per claim 26, Raj discloses the method of claim 25 wherein the initializing includes storing default values for the variables not found in the generated data (col. 4: 50-60 "... three are stored in an eight-bit variables ...").

Per claim 27, Raj discloses the method of claim 25 wherein the initializing includes storing user-input values for the variables not found in the generated data (e.g. FIG. 3 and related text).

Per claim 28, Raj discloses the method of claim 25 wherein the initializing includes storing values for the variables not found in the generated data based on user-specified conditions (e.g. FIG. 3 and related text).

Per claim 29, this is the processing system version of the claimed method discussed above (Claim 1), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Raj.

Per claim 30, this is the processing system version of the claimed method discussed above (Claim 3), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Raj.

Per claim 31, this is the processing system version of the claimed method discussed above (Claim 5), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Raj.

Per claim 32, this is the processing system version of the claimed method discussed above (Claim 6), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Raj.

Per claim 33, this is the processing system version of the claimed method discussed above (Claim 11), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Raj.

Per claim 34, this is the processing system version of the claimed method discussed above (Claim 17), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Raj.

Per claim 35, this is the processing system version of the claimed method discussed above (Claim 18), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Raj.

Per claim 36, this is the processing system version of the claimed method discussed above (Claim 19), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Raj.

Per claim 37, this is the processing system version of the claimed method discussed above (Claim 20), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Raj.

Per claim 38, this is the program product version of the claimed method discussed above (Claim 1), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Raj.

Per claim 39, this is the program product version of the claimed method discussed above (Claim 3), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Raj.

Per claim 40, this is the program product version of the claimed method discussed above (Claim 6), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Raj.

Per claim 41, this is the program product version of the claimed method discussed above (Claim 11), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Raj.

Per claim 42, Raj discloses the program product of claim 38 wherein the storage medium is a magnetic recording medium (col. 1: 10-20 "... systems having different data storage architectures so these computer systems may simply and easily communicate over a network...").

Per claim 43, Raj discloses the program product of claim 38 wherein the storage medium is an optical recording medium (col. 1: 10-20 "... systems having different data storage architectures so these computer systems may simply and easily communicate over a network...").

Per claim 44, Raj discloses the program product of claim 38 wherein the storage medium is a network distribution medium (col. 1: 10-20 "... systems having different data storage architectures so these computer systems may simply and easily communicate over a network...").

Per claim 45, this is the method of processing version of the claimed method of exchanging discussed above (Claim 1), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Raj.

Per claim 46, this is the method of processing version of the claimed method of exchanging discussed above (Claim 20), wherein all claim limitations have been addressed

and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Raj.

Per claim 47, this is the method of processing version of the claimed method of exchanging discussed above (Claim 20), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Raj.

Per claim 48, this is the method of processing version of the claimed method of exchanging discussed above (Claim 1), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Raj.

Per claim 49, this is the method of processing version of the claimed method of exchanging discussed above (Claim 2), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Raj.

Per claim 50, this is the method of processing version of the claimed method of exchanging discussed above (Claim 20), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Raj.

Per claim 51, this is the method of processing version of the claimed method of exchanging discussed above (Claim 20), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Raj.

Per claim 52, this is the method of processing version of the claimed method of exchanging discussed above (Claim 3), wherein all claim limitations have been addressed

and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Raj.

Per claim 53, this is the method of processing version of the claimed method of exchanging discussed above (Claim 5), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also anticipated by Raj.

Response to Arguments

5.   Applicant's arguments filed 10/29/2007 have been fully considered but they are not persuasive.

In the remark, the Applicant argues:

There is no teaching or suggestion in Raj of exchanging data structure formats between first and second components between components that use different data structure format as recited in independent claims 1, 29, 38, 45 and 48 (page 12 and13).

Examiner's Response:

It is respectfully submitted that Raj teaches a method for data conversion in a heterogeneous communications network. For example a big endian machine and a little endian machine to communicate through memory reads and writes to each other. For the above machines to communicate or exchange information, the data must be re-formatted to be accessible by the other machine. In addition to the above, FIG. 2 illustrates communications between the SM and other subnet management agents. The data is reformatted in order to

exchange the data structure formats (big endian and little endian) in heterogeneous communication network. Therefore Raj teaches exchanging data structure formats between first and second components between components that use different data structure format.

Conclusion

6.   **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Isaac T. Tecklu whose telephone number is (571) 272-7957. The examiner can normally be reached on M-TH 9:300A - 8:00P.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam can be reached on (571) 272-3695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Isaac Tecklu
Art Unit 2192

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